

FGDC Address Subcommittee



June 10, 2020

11:00 pm– 12:30 pm Eastern

Meeting Agenda

1. Welcome and Introductions/Roll Call – 5 min
2. NAD Updates – Steve Lewis – 6 min
3. Address Workflow Subgroup Update – Matt Zimolzak – 3 min
4. Puerto Rico Address Data Working Group (PRADWG) Update – Dave Cackowski
5. NAD Strategy Working Group Update – Steve Lewis – 4 min
6. Civic Location Data Exchange Format (CLDXF) Standard Version 2 Q & A – Christian Jacqz – 15 min
7. Content Recommendations for the National Address Database (NAD)– Address Content Subgroup – 50 min
8. Puerto Rico Civic Address Vulnerability Evaluation (PRCAVE) Update – Raul Rios-Diaz – 5 min
9. Action Item Review – Dave Cackowski – 1 min
10. Adjourn

NAD Updates

Address Workflow Subgroup Update

Puerto Rico Address Data Working Group (PRADWG) Update

PRADWG Update

- The Phase 2 report on agency challenges released to the Address Subcommittee on May 28
- Phase 3: Gather federal agency requirements to improve the management of Puerto Rico address data.

NAD Strategy Working Group Update

Civic Location Data Exchange Format (CLDXF) Standard Version 2 Q & A

Content Recommendations for the National Address Database (NAD)

Outline

- Subgroup Scope
- Sources, Procedure, Results
- NAD Purpose and Scope
- NAD Capabilities
- NAD Content
- Review: Scope, Capabilities, Content
- Review Process

Subgroup Scope

The scope and purpose of the Address Content Subgroup is to identify the minimum address content and other possible tiers of desired or optimum content for inclusion in the National Address Database (NAD).

The Address Content Subgroup will coordinate with other subgroups to ensure that minimum content supports workflows and other requirements.

The Subgroup will report our recommendations to the FGDC Address Theme Subcommittee.

Sources, Procedure, Results

Sources

- FGDC address data standard (v2011)
- NENA CLDXF standard (v2014)
- NAD Pilot Project schema (2016)
- Address Workflow Subgroup recommendations (2019)
 - State-level workflow
 - UUID

Sources, Procedure, Results (Cont.)

Procedure

1. Develop a preliminary list of desired NAD capabilities.
2. Review each content item in each source.
3. Review definitions for comparable items across the three sources.
4. Based on the above, refine the statement of NAD purpose and scope, and the list of capabilities.

Sources, Procedure, Results (Cont.)

Results

Recommendations for:

- Refined NAD statement of scope and purpose
- NAD capabilities needed to fulfill the purpose within the scope.
- Content items needed for each capability
 - Minimum data set (mandatory items)
 - Maximum data set (mandatory and optional items)
 - Excluded items
- Definitions for all items

NAD Purpose and Scope

Inclusions:

The national address database shall provide, in a single authoritative, publicly-available spatial database, all United States addresses, along with their coordinate locations, metadata, and other attributes, for the the following address classes, as defined in the FGDC address data standard:

- **Thoroughfare Classes**

- Numbered thoroughfare addresses (“123 Main Street”)
- Intersection addresses (“Boardwalk and Park Place”)
- Two-number address ranges (“4641-4651 Tanglewood Drive”)
- Unnumbered thoroughfare addresses (e.g., “Ili-Ili Airport Road”)

- **Landmark Classes**

- Landmark addresses (“United States Capitol Building”)
- Community addresses (“23B Edgewater Park”)

Exclusions:

1. Road centerlines and TIGER address ranges.
2. Address reference system attributes.
3. Certain pilot schema, CLDXF, and FGDC items.

NAD Capabilities

1. Provide the address data elements and data record structures needed for the six address classes
2. Address mapping
3. A unique, permanent UUID that persists for each address
4. Address coordinates, placement, and points
5. Address authority
6. Address-to-address relationships.
7. Address-to-parcel relationships
8. Address documentation and quality control
9. Address provider and dataset identification
10. Import and display/export of address records
11. Support for NAD workflows

NAD Content: Address Elements

Address Number Elements

- Address Number Prefix, Address Number, Address Number Suffix
- Complete Address Number

Street Name Elements

- Street Name Premodifier, Street Name Predirectional, Street Name Pretype, Separator, Street Name, Street Name Posttype, Street Name Postdirectional, Street Name Postmodifier
- Complete Street Name

Subaddress Elements

- Subaddress Type, Subaddress ID
- Subaddress Element, Complete Subaddress

Landmark Name Elements

- Landmark Name

NAD Content: Address Elements

Place and State Name Elements

- County Name
- Municipality Name
- Postal City Name
- Census Designated Place Name
- Unincorporated Community Name
- Neighborhood Name
- Native American Area Name
- Native American Tribal Subdivision Area Name
- Urbanization Name (PR)
- Other Place Name

- State Name
- ZIP Code
- ZIP Plus 4

NAD Content: Address Attributes

Address ID, Authority, and Reference System Name

- Address UUID, Address Authority, Address Reference System Name

Address Coordinates, Placement, and Point

- Address Longitude, Latitude, Elevation, USNG
- Address Placement, Address Point

Address-to-address Relations

- Related Address ID, Address Relationship Type

Address-to-parcel Relationships

- Address Parcel ID, Address Parcel ID Source

NAD Content: Address Attributes

Additional Address Documentation

- Address Classification
- Address Lifecycle Status; Address Start Date; Address End Date
- Address Last Revision Date
- Address Anomaly Status
- Location Description
- Address Feature Type
- CLDXFv1 Subaddress Type; CLDXFv2 Named Location Type
- Subaddress Component Order; Element Sequence Number
- Place Name Type; Delivery Address Type

Address Lineage

- NAD Data Provider; Data Set ID

TBD: Domain table items; QC test results; Data set and Data provider attributes; NAD metadata update

NAD Content (Cont.)

Proposed Changes from Pilot Project Schema

1. Add several new elements and attributes (see Table 1).
2. Change GUID to UUID.
3. Combine five elements (Building, Floor, Unit, Room, Additional Location Info) into one Subaddress Element.
4. Redefine Unincorporated Community and Unincorporated Neighborhood into the Census Designated Place, Unincorporated Community Name, Neighborhood Name, and Urbanization Name elements.
5. Incorporate Milepost into the Address Number elements.
6. Drop two items: Bulk Delivery ZIP Code, Bulk Delivery ZIP Plus 4 Addition.
7. For elements where the FGDC definition and schema definition are the same or similar, use the FGDC definition.

Review: Content, Capabilities, Scope

We assume most reviewers will be focused primarily on specific content in the recommendation, but during the review consider the impacts to the outlined **Capabilities (Section 5)**, and changes to the stated **Scope (Section 3)**.

Content (Section 6)

- Should any data items be redefined, or their descriptions be revised?
 - Would the changes affect NAD capabilities or scope?
 - If so, in what way are capabilities and/or scope changed?
- Should any data items be added or dropped?
 - What capabilities would be gained/lost as a result?
 - Would the scope be expanded/narrowed as a result?

Review Process Envisioned

- The subcommittee chairs anticipate that review of the content recommendations will extend over 2-3 months.
- The review will occur concurrently with other subcommittee business, including related Workflow Subgroup activities.
- During the detailed presentation of the Content Recommendation at upcoming Address Theme Subcommittee meetings, time will be allotted for questions and discussion.
- The chairs request that, when possible, reviewers provide written comments (or commented versions of the report).
- This will facilitate the chairs:
 1. Determining what should be referred to the Content Subgroup, as technical comments, and which raise matters that should be discussed and adjudicated by the subcommittee.
 2. Grouping those referred to the subcommittee into an agenda for efficient discussion.

Questions?

Address Content Subgroup
David Cackowski, Chair
Florinda Balfour
Christian Jacqz
Ed Wells
Matt Zimolzak



Puerto Rico Civic Address Vulnerability Evaluation (PRCAVE) Update

Action Items

Thank You



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